



PCT10

#15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/049,265

DATE: 06/05/2002

TIME: 17:10:49

Input Set : A:\049265

Output Set: N:\CRF3\06052002\J049265.raw

ENTERED

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3 <110> APPLICANT: Althoefer, Henning
4   Zelder, Oskar
5   Doval, Jose L. Revuelta
6   Garcia, Maria Angeles Santos
7   Sahm, Hermann
8   Stahmann, Klaus-Peter
9   Maeting, Ines
11 <120> TITLE OF INVENTION: Monocellular or multicellular organisms for producing
riboflavin
13 <130> FILE REFERENCE: 50572
15 <140> CURRENT APPLICATION NUMBER: 10/049,265
C--> 16 <141> CURRENT FILING DATE: 2002-05-02
18 <150> PRIOR APPLICATION NUMBER: PCT/EP00/07370
19 <151> PRIOR FILING DATE: 2000-07-31
21 <160> NUMBER OF SEQ ID NOS: 2
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 2321
27 <212> TYPE: DNA
28 <213> ORGANISM: Ashyba gossypii
30 <220> FEATURE:
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32 <222> LOCATION: (718)..(1266)
34 <221> NAME/KEY: unsure
35 <222> LOCATION: 1..1266
36 <223> OTHER INFORMATION: n is c, g, a, t or u.
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44 aagcagcgct ggcaacacct cgagcccgcg ccggtgtatt tctactgcgg cgatgggatc 180
46 agcgacctga gcgctgcgaa ggaatgcgac ctgctgtttg cgaagagtgg caaggacctg 240
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58 cccaacgggt tgagaagtcc ggctcgaatc atttccgcgc cgagtgggtc gtgggtggag 600
60 ccgcccggacc ccttgtcagc gcgggcagtt ggaataaagg cagtggttgt agcaaaagtg 660
W--> 62 agntgcgtgc atttcacgaa gccgagcgca acaacgcaca gacatcagta agcagct 717
64 atg ggc aag gtg aag gta caa caa ccc atc gtc gag atg gac ggc gac 765
65 Met Gly Lys Val Lys Val Gln Gln Pro Ile Val Glu Met Asp Gly Asp
66 1 5 10 15
68 gaa cag acg cgg atc atc tgg cac ttg atc aag gat cag ctc atc ttc 813
69 Glu Gln Thr Arg Ile Ile Trp His Leu Ile Lys Asp Gln Leu Ile Phe

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72 ccc tac ttg gac gtg gac ttg aag tac tac gat ctt tcc att gag aac 861
73 Pro Tyr Leu Asp Val Asp Leu Lys Tyr Tyr Asp Leu Ser Ile Glu Asn
74          35          40          45
76 agg gat gcc acc gag gac cgc gtg act gtg gag tct gcg gag gcg acc 909
77 Arg Asp Ala Thr Glu Asp Arg Val Thr Val Glu Ser Ala Glu Ala Thr
78          50          55          60
80 ctc aag tac ggc gtt gcc gtc aag tgt gcg att att acc ccg gac gag 957
81 Leu Lys Tyr Gly Val Ala Val Lys Cys Ala Ile Ile Thr Pro Asp Glu
82 65          70          75          80
84 gcg cgt gtc gag gag ttc ggg ctc aag gag atg tgg aag tct ccc aac 1005
85 Ala Arg Val Glu Glu Phe Gly Leu Lys Glu Met Trp Lys Ser Pro Asn
86          85          90          95
88 ggg acc atc cgg aac atc ctc ggc ggg acc gtc ttc aga gag ccc att 1053
89 Gly Thr Ile Arg Asn Ile Leu Gly Gly Thr Val Phe Arg Glu Pro Ile
90          100          105          110
92 att atc cca agg atc ccc aga ctg gtg ccc ggc tgg aac gag ccg atc 1101
93 Ile Ile Pro Arg Ile Pro Arg Leu Val Pro Gly Trp Asn Glu Pro Ile
94          115          120          125
96 att gtc ggc aga cac gcg ttt ggg gac cag tac aag gcg acc gac gtt 1149
97 Ile Val Gly Arg His Ala Phe Gly Asp Gln Tyr Lys Ala Thr Asp Val
98          130          135          140
100 gtc att cca ggc gag ggc acg ttg aag ctg gtc ttt gaa agc aag gac 1197
101 Val Ile Pro Gly Glu Gly Thr Leu Lys Leu Val Phe Glu Ser Lys Asp
102 145          150          155          160
104 ggg gac aag tcc aag aat ctt gac ctg gag ttc ttt gaa tac ccc aag 1245
105 Gly Asp Lys Ser Lys Asn Leu Asp Leu Glu Phe Phe Glu Tyr Pro Lys
106          165          170          175
108 gat ggc ggt gtt gcc atg acc atgtactaca ccaccgactc gatcaccggc 1296
109 Asp Gly Gly Val Ala Met Thr
110          180
112 ttgccaagt cgagcttcga gttggcggtt caaagaaaga tgccgctata ttcgacaacg 1356
114 aagaacacga tcttgaagaa gtacgacggc aagtttaagg atattttcga gggcatgtac 1416
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118 gacgatattg ttgcgcagat gttgaagtcc aagggcggtc tcatcattgc catgaagaac 1536
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126 tctatttttg cctggatgcg cgggtattata cacagaggta aggtcgacgg taccacgat 1776
128 gtcgtgaagt tcggcgagtt gttggagaag tccaccctgg acacggtgca ggaggacatc 1836
130 atgaccaagg acctagcggt gattttgggc aagaccgaca gagccagcta tgttaccacg 1896
132 gaagagttta tcacagcagt agcgaaccgc ttagcgatgg ctacaagcgt cttttttgtg 1956
134 aataagaaaa agcaagcaaa attatagcct aggtgcctg tagcgtctat ttattactag 2016
136 tctagcatat ctagcacaag aatatagata ctgagccatc cgcccaggat tacagtcagg 2076
138 attccaactt gtaaacctcc ggtggtgcgc actcgccgca aattaggtga gcttgccatt 2136
140 agtcatccga ggcgagaaat gagtagggtt tatagtaaac ccgggtgctg taacaccaga 2196
142 tcccactttt cctggcacag tatttttgcc gacaacggca ctgctaaccg tttctcaact 2256
144 acgcgcaata atgtaggctc cacggtccga tgaaaactaa tgcgcagtag catgacatgg 2316
146 aattc 2321

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149 <210> SEQ ID NO: 2
150 <211> LENGTH: 183
151 <212> TYPE: PRT
152 <213> ORGANISM: Ashyba gossypii
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160           20           25           30
162 Pro Tyr Leu Asp Val Asp Leu Lys Tyr Tyr Asp Leu Ser Ile Glu Asn
163           35           40           45
165 Arg Asp Ala Thr Glu Asp Arg Val Thr Val Glu Ser Ala Glu Ala Thr
166           50           55           60
168 Leu Lys Tyr Gly Val Ala Val Lys Cys Ala Ile Ile Thr Pro Asp Glu
169   65           70           75           80
171 Ala Arg Val Glu Glu Phe Gly Leu Lys Glu Met Trp Lys Ser Pro Asn
172           85           90           95
174 Gly Thr Ile Arg Asn Ile Leu Gly Gly Thr Val Phe Arg Glu Pro Ile
175           100          105          110
177 Ile Ile Pro Arg Ile Pro Arg Leu Val Pro Gly Trp Asn Glu Pro Ile
178           115          120          125
180 Ile Val Gly Arg His Ala Phe Gly Asp Gln Tyr Lys Ala Thr Asp Val
181           130          135          140
183 Val Ile Pro Gly Glu Gly Thr Leu Lys Leu Val Phe Glu Ser Lys Asp
184 145           150          155          160
186 Gly Asp Lys Ser Lys Asn Leu Asp Leu Glu Phe Phe Glu Tyr Pro Lys
187           165          170          175
189 Asp Gly Gly Val Ala Met Thr
190           180

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/049,265

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 663